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PATENT

ECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

(FOR VOYAN TECHNOLOGY PATENT APPLICATIONS)

As a below named inventor, I hereby declare that:

the specification of which

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR THE PREDICTION AND OPTIMIZATION IN IMPAIRED COMMUNICATION SYSTEMS

	is attached he	reto.	
X	was filed on	November 10, 2000	as
	United	States Application Number 09	/710,487
		T International Application Numb	
		as amended on	

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)		Priorit <u>Claim</u>		
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

Voyan Technology 1340P082 Rev. 2.0 (4/01)

(Number)	(Country)	(Day/Month/Year Fil	ed) Yes No
I hereby claim the benefit u States provisional application		States Code, Section 119(e) of any United
60/164,986 (Application Number)	November 1 Filing Da		
60/181,125 (Application Number)	<u>February 8,</u> Filing Da	2000	
60/183,675	February 18		
(Application Number)	Filing Da	•	
60/165,399 (Application Number)	November Filing Da		
I hereby claim the benefit upplication(s), or 365(c) of America, listed below and, is not disclosed in the prior provided by the first paragr duty to disclose all informational Code of Federal Regulation the prior application and the	any PCT Internation insofar as the subject United States or PC aph of Title 35, United tion known to me to be s, Section 1.56 which	al application designating the character of each of the claic Transmission application and States Code, Section 11 be material to patentability the became available between	he United states of ms of this application in the manner 2, I acknowledge the as defined in Title 37, en the filing date of
(U.S. Parent Application or) PCT Parent No.)	Parent Filing Date	(Status patented, pending, abandoned)	Parent Patent No. (if applicable)
(U.S. Parent Application or) PCT Parent No.)	Parent Filing Date	(Status patented, pending, abandoned)	Parent Patent No. (if applicable)
I hereby appoint the person part of this document) as m substitution and revocation and Trademark Office conn	ny respective patent , to prosecute this a	attorneys and patent agent	s, with full power of
ZAFMAN LLP, 12400 Wils direct telephone calls to_	Name of Attorney o shire Boulevard, 7tl	or Agent) h Floor, Los Angeles, Cal , (408) 720-8300.	ifornia 90025 and
I hereby declare that all sall statements made on in these statements were m like so made are punisha Title 18 of the United Stathe validity of the applica	nformation and bel ade with the knowl able by fine or impr tes Code and that s	ief are believed to be true ledge that willful false sta isonment, or both, under such willful false stateme	e; and further that atements and the Section 1001 of

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APPENDIX A

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I also hereby appoint Darren J. Milliken, Reg. No. 42,004 as my attorney of Voyan Technology located at 3255-7 Scott Blvd., Santa Clara, CA 95054, telephone (408)-450-4234 with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclosure information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclosure all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
- (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made or record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.